



INSTITUTE FOR ENGINEERING THERMODYNAMICS  
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Laboratory course report  
**Application of TDLAS**

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# Todo list

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# 1 Introduction

Some fancy introduction.

The assignment, description of the equipment and procedure and further details about the Lab Course are described in the given handbook [1].

## **2 Theoretical basics**

The following theoretical basics are summarized from the standard literature in optics [2]–[5] and more specifically Raman application [6], [7].

### **2.1 Molecule - light interactions**

### **2.2 Scattering effects**

### **2.3 Measurement of different physical properties - RAMAN spectroscopy**

## **3 Experimental setup**

### **3.1 Used equipment**

### **3.2 Measurement setup and preparations**

### **3.3 Expectations**

### **3.4 Execution**



# 4 Results

## 4.1 Data presentation and preparation

## 4.2 Evaluation

## 4.3 Error discussion

# 5 Summary



# Acronyms

**SG**            synchronous generator

# Symbols

Complete list of Symbols

$H_{\text{gen}}$	s	inertia constant of a synchronous generator (SG)
$P$	W	Power; electrical or mechanical

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numbering  
post-sections;  
special at-  
tention to  
left/right page  
issues

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